VPX6-C2

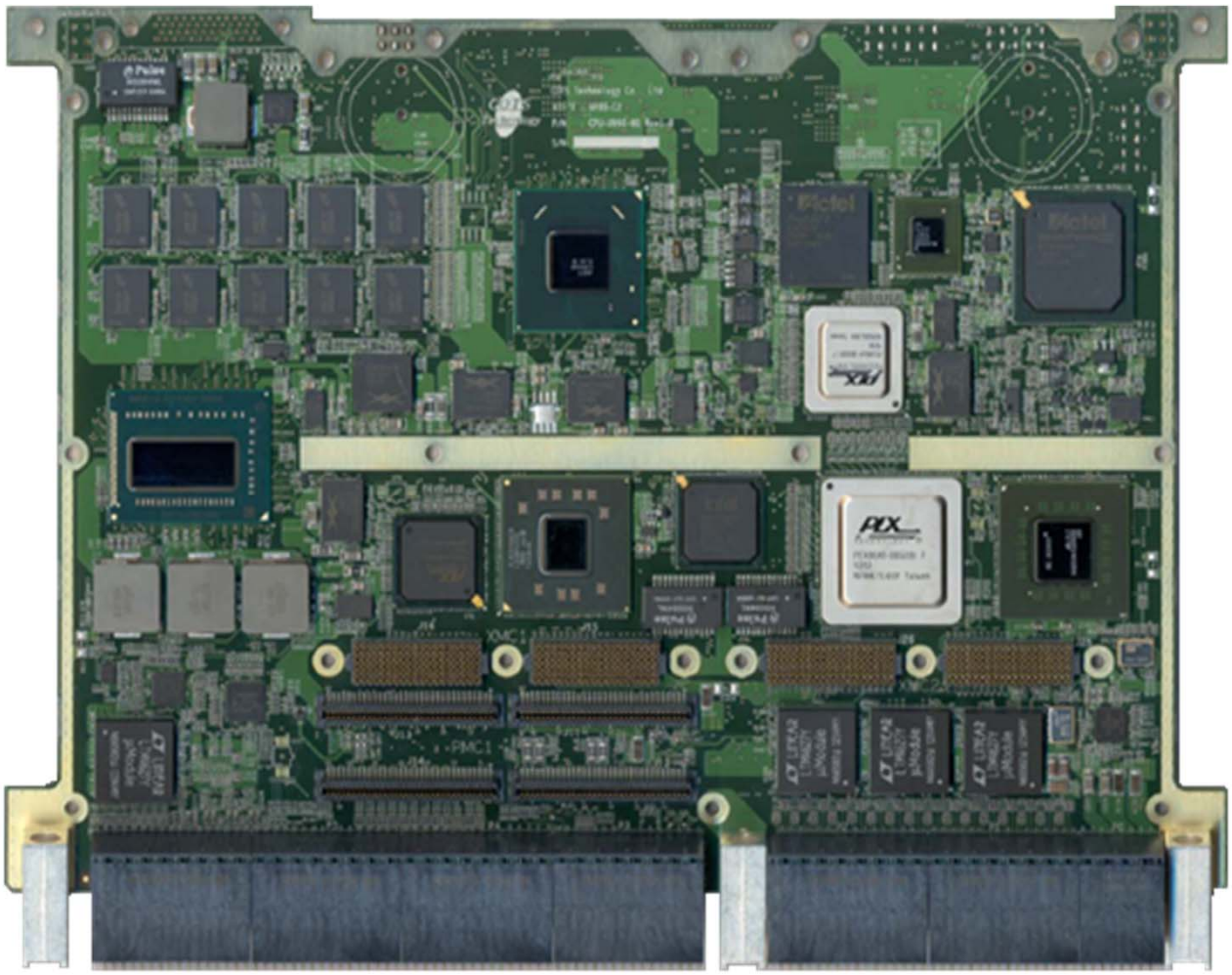
COTS Technology

3rd Generation Intel Core i7 Open VPX 6U

The VPX6-C2 from COTS Technology supports Intel® Core™ i7 Quad-Core 22nm processor(i7-3612QE) with Intel AVX floating point libraries.

This Intel Quad-Core 22nm processor is also equipped with more cache than any previous CPU, allowing it to process larger vectors at peak rates than previous processor technologies.

The VPX6-C2 features high-bandwidth fabrics including Serial RapidIO® (SRIO) and Gen2 PCI Express® (PCIe) to the P1 & P2 connectors. This provides contemporary connectivity between the VPX6-C2 and additional boards in a high performance computing environment. The VPX6-C2 is supported with an extensive suite of industry-preferred software such as VxWorks™, Linux®, and Windows® XPe/7.



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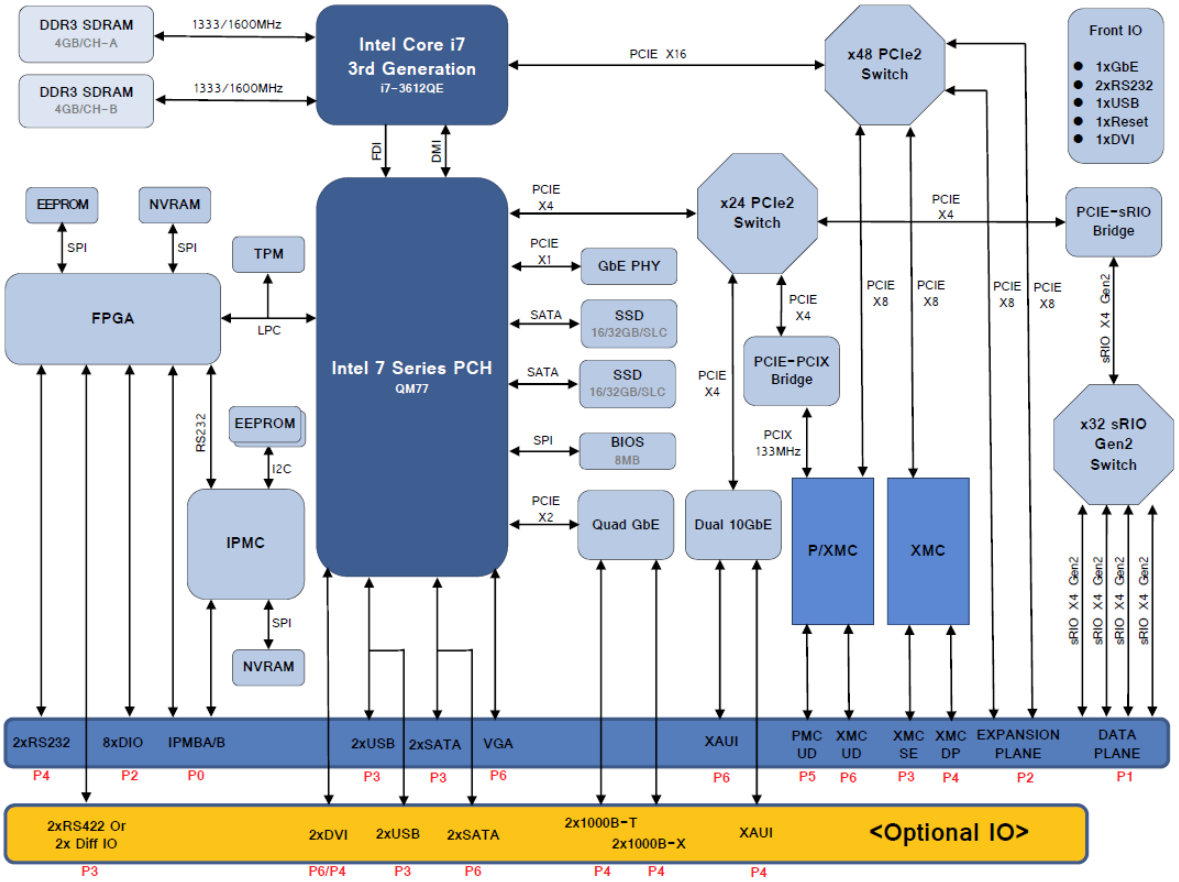
VPX6-C2 Features and specification



Item	Description	Remark(mark*:means option)
Model name	VPX6-C2	6U, Rugged Conduction cool, Air cool
Module Profile	MOD6-PAY-4F1Q2U2T-12.2.1-1(2,9,11,12)	VITA 65(Open VPX)
CPU	i7-3612QE, 2.1GHz, 4-Core, TDP 35W	Ivy Bridge(3rd Gen i7), 6MB L3 Cache, AVX(135GFLOP)
Memory	4/8GB DDR3-1600/1333 w/ECC	2 Channel
Storage	Two site for 16 or 32GB NAND Flash Drive	On board, SLC Flash(High Performance & -45˚C~85˚C), 64GB(TBD)
BIOS	AMI Aptio UEFI BIOS	
NVRAM	512KB	SPI Flash
Expansion Plane	(2) x8 PCIe on P2 con	PLX PEX8648(PCIe Gen2 SW), Support NT port
Data Plane	(4) x4 sRIO on P1 con	IDT CPS1432(sRIO Gen2 SW)
Control Plane	(2) GbE, (2) SerDes(1000Base-BX) on P4 con	Intel 82580
UART	(2) RS232, (2) RS422/485	(1) Interconnect Core FPGA and IPMC, (2*) Front IO
Expansion site	(1) XMC(P3w3-X38s+P4w1-X12d+X8d) , (1) X/PMC combo (P5w1-P64s+P6w1-X12d+X8d)	VITA 46.9
USB	(2+2*)	(1*) Front I/O
SATA	(2+2*)	
Video	(1+1*) DVI + (1) VGA	(1*) DVI(Front I/O)
Other IO	(8) LVTTL GPIO, (2*) Diff I/O, (1+1*) 10GbE XAUI	(1*) GbE(Front I/O, Intel 82579), 10GbE(Intel 82599)
Etc.	IPMI v1.5, TPM v1.2*	
OS & SW	Windows/VxWorks/Linux	